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| Michael T. Davis  Pre-Calculus | | 1.6 Quadratic Functions – Finding Real Zeros In-Class (1)  September 20, 2016 | |
| Name: | |

**Determining the number of real zeros (x-intercepts) from a Vertex Form Equation**

1. Without graphing, determine the number of real zeros (x-intercepts) of the parabola with equation  . Then, find the real zeros.
2. Without graphing, determine the number of real zeros (x-intercepts) of the parabola with equation . Then, find the real zeros.
3. Without graphing, determine the number of real zeros (x-intercepts) of the parabola with equation . Then, find the real zeros.
4. Without graphing, determine the number of real zeros (x-intercepts) of the parabola with equation . Then, find the real zeros.

**Finding the zeros of a quadratic function, i.e. solving** 

1. Determine the real zeros (x-intercepts) of the parabola with equation 
2. Determine the real zeros (x-intercepts) of the parabola with equation 
3. Determine the real zeros (x-intercepts) of the parabola with equation 
4. Determine the real zeros (x-intercepts) of the parabola with equation 
5. Determine the real zeros (x-intercepts) of the parabola with equation 

**Determining the number of real zeros (x-intercepts) from a general form equation**

1. Determine the real zeros (x-intercepts) of the parabola with equation , i.e solve 
2. Determine the real zeros (x-intercepts) of the parabola with equation , i.e solve 
3. Determine the real zeros (x-intercepts) of the parabola with equation  , i.e solve 
4. Determine the real zeros (x-intercepts) of the parabola with equation  , i.e solve 
5. Determine the real zeros (x-intercepts) of the parabola with equation  , i.e solve 